#2

OIPE

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/899,471**

DATE: 07/24/2001
TIME: 11:39:16

Input Set : **A:\00-46.SEQ.txt**
Output Set: **N:\CRF3\07242001\I899471.raw**

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   4 <110> APPLICANT: Gao, Zeren
   6 <120> TITLE OF INVENTION: Murine Cytokine Receptor
   8 <130> FILE REFERENCE: 00-46
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/899,471
C--> 10 <141> CURRENT FILING DATE: 2001-07-05
  10 <160> NUMBER OF SEQ ID NOS: 8
  12 <170> SOFTWARE: FastSEQ for Windows Version 3.0
  14 <210> SEQ ID NO: 1
  15 <211> LENGTH: 2256
  16 <212> TYPE: DNA
  17 <213> ORGANISM: mouse
  19 <220> FEATURE:
  20 <221> NAME/KEY: CDS
  21 <222> LOCATION: (197)...(2218)
  23 <400> SEQUENCE: 1
  24  aaatcgaaag cactccagct gaaactgggc ctggagtcca ggctcactgg agtggggaag        60
  25  catggctgga gaggaattct agcccttgct ctctcccagg gacacggggc tgattgtcag       120
  26  caggggcgag gggtctgccc ccccttgggg gggcaggacg gggcctcagg cctgggtgct       180
  27  gtccggcacc tggaag atg cct gtg tcc tgg ttc ctg ctg tcc ttg gca ctg       232
  28                     Met Pro Val Ser Trp Phe Leu Leu Ser Leu Ala Leu
  29                      1               5                      10
  31  ggc cga aac cct gtg gtc gtc tct ctg gag aga ctg atg gag cct cag       280
  32  Gly Arg Asn Pro Val Val Val Ser Leu Glu Arg Leu Met Glu Pro Gln
  33          15                  20                  25
  35  gac act gca cgc tgc tct cta ggc ctc tcc tgc cac ctc tgg gat ggt       328
  36  Asp Thr Ala Arg Cys Ser Leu Gly Leu Ser Cys His Leu Trp Asp Gly
  37       30                  35                  40
  39  gac gtg ctc tgc ctg cct gga agc ctc cag tct gcc cca ggc cct gtg       376
  40  Asp Val Leu Cys Leu Pro Gly Ser Leu Gln Ser Ala Pro Gly Pro Val
  41   45                  50                  55                  60
  43  cta gtg cct acc cgc ctg cag acg gag ctg gtg ctg agg tgt cca cag       424
  44  Leu Val Pro Thr Arg Leu Gln Thr Glu Leu Val Leu Arg Cys Pro Gln
  45                  65                  70                  75
  47  aag aca gat tgc gcc ctc cgt gtc cgt gtg gtg gtc cac ttg gcc gtg       472
  48  Lys Thr Asp Cys Ala Leu Arg Val Arg Val Val Val His Leu Ala Val
  49                  80                  85                  90
  51  cat ggg cac tgg gca gag cct gaa gaa gct gga aag tct gat tca gaa       520
  52  His Gly His Trp Ala Glu Pro Glu Glu Ala Gly Lys Ser Asp Ser Glu
  53              95                  100                 105
  55  ctc cag gag tct agg aac gcc tct ctc cag gcc cag gtg gtg ctc tcc       568
  56  Leu Gln Glu Ser Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
  57       110                 115                 120
  59  ttc cag gcc tac ccc atc gcc cgc tgt gcc ctg ctg gag gtc cag gtg       616
  60  Phe Gln Ala Tyr Pro Ile Ala Arg Cys Ala Leu Leu Glu Val Gln Val
  61  125                 130                 135                 140
  63  ccc gct gac ctg gtg cag cct ggt cag tcc gtg ggt tct gcg gta ttt       664
  64  Pro Ala Asp Leu Val Gln Pro Gly Gln Ser Val Gly Ser Ala Val Phe
```

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```
65                    145                 150                 155
67   gac tgt ttc gag gct agt ctt ggg gct gag gta cag atc tgg tcc tac      712
68   Asp Cys Phe Glu Ala Ser Leu Gly Ala Glu Val Gln Ile Trp Ser Tyr
69                    160                 165                 170
71   acg aag ccc agg tac cag aaa gag ctc aac ctc aca cag cag ctg cct      760
72   Thr Lys Pro Arg Tyr Gln Lys Glu Leu Asn Leu Thr Gln Gln Leu Pro
73             175                 180                 185
75   gat ggt gac aat gtc ctt ctg aca ctg gat gtc tct gag gag cag gac      808
76   Asp Gly Asp Asn Val Leu Leu Thr Leu Asp Val Ser Glu Glu Gln Asp
77        190                 195                 200
79   ttt agc ttc tta ctg tac ctg cgt cca gtc ccg gat gct ctc aaa tcc      856
80   Phe Ser Phe Leu Leu Tyr Leu Arg Pro Val Pro Asp Ala Leu Lys Ser
81   205                 210                 215                 220
83   ttg tgg tac aaa aac ctg act gga cct cag aac att act tta aac cac      904
84   Leu Trp Tyr Lys Asn Leu Thr Gly Pro Gln Asn Ile Thr Leu Asn His
85                    225                 230                 235
87   aca gac ctg gtt ccc tgc ctc tgc att cag gtg tgg tcg cta gag cca      952
88   Thr Asp Leu Val Pro Cys Leu Cys Ile Gln Val Trp Ser Leu Glu Pro
89                    240                 245                 250
91   gac tct gag agg gtc gaa ttc tgc ccc ttc cgg gaa gat ccc ggt gca      1000
92   Asp Ser Glu Arg Val Glu Phe Cys Pro Phe Arg Glu Asp Pro Gly Ala
93             255                 260                 265
95   cac agg aac ctc tgg cac ata gcc agg ctg cgg gta ctg tcc cca ggg      1048
96   His Arg Asn Leu Trp His Ile Ala Arg Leu Arg Val Leu Ser Pro Gly
97    270                 275                 280
99   gta tgg cag cta gat gcg cct tgc tgt ctg ccg ggc aag gta aca ctg      1096
100  Val Trp Gln Leu Asp Ala Pro Cys Cys Leu Pro Gly Lys Val Thr Leu
101  285                 290                 295                 300
103  tgc tgg cag gca cca gac cag agt ccc tgc cag cca ctt gtg cca cca      1144
104  Cys Trp Gln Ala Pro Asp Gln Ser Pro Cys Gln Pro Leu Val Pro Pro
105                   305                 310                 315
107  gtg ccc cag aag aac gcc act gtg aat gag cca caa gat ttc cag ttg      1192
108  Val Pro Gln Lys Asn Ala Thr Val Asn Glu Pro Gln Asp Phe Gln Leu
109                   320                 325                 330
111  gtg gca ggc cac ccc aac ctc tgt gtc cag gtg agc acc tgg gag aag      1240
112  Val Ala Gly His Pro Asn Leu Cys Val Gln Val Ser Thr Trp Glu Lys
113            335                 340                 345
115  gtt cag ctg caa gcg tgc tcg tgg gct gac tcc ttg ggg ccc ttc aag      1288
116  Val Gln Leu Gln Ala Cys Ser Trp Ala Asp Ser Leu Gly Pro Phe Lys
117       350                 355                 360
119  gat gat atg ctg tta gtg gag atg aaa acc ggc ctc aac aac aca tca      1336
120  Asp Asp Met Leu Leu Val Glu Met Lys Thr Gly Leu Asn Asn Thr Ser
121  365                 370                 375                 380
123  gtc tgt gcc ttg gaa ccc agt ggc tgt aca cca ctg ccc agc atg gcc      1384
126  Val Cys Ala Leu Glu Pro Ser Gly Cys Thr Pro Leu Pro Ser Met Ala
127                   385                 390                 395
129  tcc acg aga gct gct cgc ctg gga gag gag ttg ctg caa gac ttc cga      1432
130  Ser Thr Arg Ala Ala Arg Leu Gly Glu Glu Leu Leu Gln Asp Phe Arg
131            400                 405                 410
```

```
133  tca cac cag tgt atg cag ctg tgg aac gat gac aac atg gga tcg cta      1480
134  Ser His Gln Cys Met Gln Leu Trp Asn Asp Asp Asn Met Gly Ser Leu
135          415                 420                 425
137  tgg gcc tgc ccc atg gac aag tac atc cac agg cgc tgg gtc cta gta      1528
138  Trp Ala Cys Pro Met Asp Lys Tyr Ile His Arg Arg Trp Val Leu Val
139          430                 435                 440
141  tgg ctg gcc tgc cta ctc ttg gct gcg gcg ctt ttc ttc ttc ctc ctt      1576
142  Trp Leu Ala Cys Leu Leu Leu Ala Ala Ala Leu Phe Phe Phe Leu Leu
143  445                 450                 455                 460
145  cta aaa aag gac cgc agg aaa gcg gcc cgt ggc tcc cgc acg gcc ttg      1624
146  Leu Lys Lys Asp Arg Arg Lys Ala Ala Arg Gly Ser Arg Thr Ala Leu
147                  465                 470                 475
149  ctc ctc cac tcc gcc gac gga gcg ggc tac gag cgt ctg gtg gga gca      1672
150  Leu Leu His Ser Ala Asp Gly Ala Gly Tyr Glu Arg Leu Val Gly Ala
151          480                 485                 490
153  ctg gcg tcc gcg ttg agc cag atg cca ctg cgc gtg gcc gtg gac ctg      1720
154  Leu Ala Ser Ala Leu Ser Gln Met Pro Leu Arg Val Ala Val Asp Leu
155          495                 500                 505
157  tgg agc cgc cgc gag ctg agc gcg cac gga gcc cta gcc tgg ttc cac      1768
158  Trp Ser Arg Arg Glu Leu Ser Ala His Gly Ala Leu Ala Trp Phe His
159          510                 515                 520
161  cac cag cga cgc cgt atc ctg cag gag ggt ggc gtg gta atc ctt ctc      1816
162  His Gln Arg Arg Arg Ile Leu Gln Glu Gly Gly Val Val Ile Leu Leu
163  525                 530                 535                 540
165  ttc tcg ccc gcg gcc gtg gcg cag tgt cag cag tgg ctg cag ctc cag      1864
166  Phe Ser Pro Ala Ala Val Ala Gln Cys Gln Gln Trp Leu Gln Leu Gln
167                  545                 550                 555
169  aca gtg gag ccc ggg ccg cat gac gcc ctc gcc gcc tgg ctc agc tgc      1912
170  Thr Val Glu Pro Gly Pro His Asp Ala Leu Ala Ala Trp Leu Ser Cys
171          560                 565                 570
173  gtg cta ccc gat ttc ctg caa ggc cgg gcg acc ggc cgc tac gtc ggg      1960
174  Val Leu Pro Asp Phe Leu Gln Gly Arg Ala Thr Gly Arg Tyr Val Gly
175          575                 580                 585
177  gtc tac ttc gac ggg ctg ctg cac cca gac tct gtg ccc tcc ccg ttc      2008
178  Val Tyr Phe Asp Gly Leu Leu His Pro Asp Ser Val Pro Ser Pro Phe
179          590                 595                 600
181  cgc gtc gcc ccg ctc ttc tcc ctg ccc acg cag ctg ccg gct ttc ctg      2056
182  Arg Val Ala Pro Leu Phe Ser Leu Pro Thr Gln Leu Pro Ala Phe Leu
183  605                 610                 615                 620
185  gat gca ctg cag gga ggc tgc tcc act tcc gcg ggg cga ccc gcg gac      2104
188  Asp Ala Leu Gln Gly Gly Cys Ser Thr Ser Ala Gly Arg Pro Ala Asp
189                  625                 630                 635
191  cgg gtg gaa cga gtg acc cag gcg ctg cgg tcc gcc ctg gac agc tgt      2152
192  Arg Val Glu Arg Val Thr Gln Ala Leu Arg Ser Ala Leu Asp Ser Cys
193                  640                 645                 650
195  act tct agc tcg gaa gcc cca ggc tgc tgc gag gaa tgg gac ctg gga      2200
196  Thr Ser Ser Ser Glu Ala Pro Gly Cys Cys Glu Glu Trp Asp Leu Gly
197          655                 660                 665
199  ccc tgc act aca cta gaa taaaagccga tacagtattc ctaaaaaaaa             2248
```

```
200   Pro Cys Thr Thr Leu Glu
201        670
203   aaaaaaaa                                                    2256
205 <210> SEQ ID NO: 2
206 <211> LENGTH: 674
207 <212> TYPE: PRT
208 <213> ORGANISM: mouse
210 <400> SEQUENCE: 2
211   Met Pro Val Ser Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Asn Pro
212   1               5                   10                  15
213   Val Val Val Ser Leu Glu Arg Leu Met Glu Pro Gln Asp Thr Ala Arg
214               20                  25                  30
215   Cys Ser Leu Gly Leu Ser Cys His Leu Trp Asp Gly Asp Val Leu Cys
216           35                  40                  45
217   Leu Pro Gly Ser Leu Gln Ser Ala Pro Gly Pro Val Leu Val Pro Thr
218       50                  55                  60
219   Arg Leu Gln Thr Glu Leu Val Leu Arg Cys Pro Gln Lys Thr Asp Cys
220   65                  70                  75                  80
221   Ala Leu Arg Val Arg Val Val Val His Leu Ala Val His Gly His Trp
222               85                  90                  95
223   Ala Glu Pro Glu Glu Ala Gly Lys Ser Asp Ser Glu Leu Gln Glu Ser
224               100                 105                 110
225   Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser Phe Gln Ala Tyr
226           115                 120                 125
227   Pro Ile Ala Arg Cys Ala Leu Leu Glu Val Gln Val Pro Ala Asp Leu
228       130                 135                 140
229   Val Gln Pro Gly Gln Ser Val Gly Ser Ala Val Phe Asp Cys Phe Glu
230   145                 150                 155                 160
231   Ala Ser Leu Gly Ala Glu Val Gln Ile Trp Ser Tyr Thr Lys Pro Arg
232               165                 170                 175
233   Tyr Gln Lys Glu Leu Asn Leu Thr Gln Gln Leu Pro Asp Gly Asp Asn
234               180                 185                 190
235   Val Leu Leu Thr Leu Asp Val Ser Glu Glu Gln Asp Phe Ser Phe Leu
236           195                 200                 205
237   Leu Tyr Leu Arg Pro Val Pro Asp Ala Leu Lys Ser Leu Trp Tyr Lys
238       210                 215                 220
239   Asn Leu Thr Gly Pro Gln Asn Ile Thr Leu Asn His Thr Asp Leu Val
240   225                 230                 235                 240
241   Pro Cys Leu Cys Ile Gln Val Trp Ser Leu Glu Pro Asp Ser Glu Arg
242               245                 250                 255
243   Val Glu Phe Cys Pro Phe Arg Glu Asp Pro Gly Ala His Arg Asn Leu
244               260                 265                 270
245   Trp His Ile Ala Arg Leu Arg Val Leu Ser Pro Gly Val Trp Gln Leu
246           275                 280                 285
247   Asp Ala Pro Cys Cys Leu Pro Gly Lys Val Thr Leu Cys Trp Gln Ala
248       290                 295                 300
249   Pro Asp Gln Ser Pro Cys Gln Pro Leu Val Pro Val Pro Gln Lys
250   305                 310                 315                 320
251   Asn Ala Thr Val Asn Glu Pro Gln Asp Phe Gln Leu Val Ala Gly His
```

RAW SEQUENCE LISTING   DATE: 07/24/2001
PATENT APPLICATION: **US/09/899,471**   TIME: 11:39:17

Input Set : **A:\00-46.SEQ.txt**
Output Set: **N:\CRF3\07242001\I899471.raw**

```
252                   325                 330                 335
253   Pro Asn Leu Cys Val Gln Val Ser Thr Trp Glu Lys Val Gln Leu Gln
254                   340                 345                 350
255   Ala Cys Ser Trp Ala Asp Ser Leu Gly Pro Phe Lys Asp Asp Met Leu
256                   355                 360                 365
257   Leu Val Glu Met Lys Thr Gly Leu Asn Asn Thr Ser Val Cys Ala Leu
258          370                 375                 380
259   Glu Pro Ser Gly Cys Thr Pro Leu Pro Ser Met Ala Ser Thr Arg Ala
260   385                 390                 395                 400
261   Ala Arg Leu Gly Glu Glu Leu Leu Gln Asp Phe Arg Ser His Gln Cys
262                   405                 410                 415
263   Met Gln Leu Trp Asn Asp Asp Asn Met Gly Ser Leu Trp Ala Cys Pro
264                   420                 425                 430
265   Met Asp Lys Tyr Ile His Arg Arg Trp Val Leu Val Trp Leu Ala Cys
266          435                 440                 445
267   Leu Leu Leu Ala Ala Ala Leu Phe Phe Phe Leu Leu Leu Lys Lys Asp
268          450                 455                 460
269   Arg Arg Lys Ala Ala Arg Gly Ser Arg Thr Ala Leu Leu Leu His Ser
270   465                 470                 475                 480
271   Ala Asp Gly Ala Gly Tyr Glu Arg Leu Val Gly Ala Leu Ala Ser Ala
272                   485                 490                 495
273   Leu Ser Gln Met Pro Leu Arg Val Ala Val Asp Leu Trp Ser Arg Arg
274                   500                 505                 510
275   Glu Leu Ser Ala His Gly Ala Leu Ala Trp Phe His His Gln Arg Arg
276          515                 520                 525
277   Arg Ile Leu Gln Glu Gly Gly Val Val Ile Leu Leu Phe Ser Pro Ala
278          530                 535                 540
279   Ala Val Ala Gln Cys Gln Gln Trp Leu Gln Leu Gln Thr Val Glu Pro
280   545                 550                 555                 560
281   Gly Pro His Asp Ala Leu Ala Ala Trp Leu Ser Cys Val Leu Pro Asp
282                   565                 570                 575
283   Phe Leu Gln Gly Arg Ala Thr Gly Arg Tyr Val Gly Val Tyr Phe Asp
284          580                 585                 590
285   Gly Leu Leu His Pro Asp Ser Val Pro Ser Pro Phe Arg Val Ala Pro
286          595                 600                 605
287   Leu Phe Ser Leu Pro Thr Gln Leu Pro Ala Phe Leu Asp Ala Leu Gln
288          610                 615                 620
289   Gly Gly Cys Ser Thr Ser Ala Gly Arg Pro Ala Asp Arg Val Glu Arg
290   625                 630                 635                 640
291   Val Thr Gln Ala Leu Arg Ser Ala Leu Asp Ser Cys Thr Ser Ser Ser
292                   645                 650                 655
293   Glu Ala Pro Gly Cys Cys Glu Glu Trp Asp Leu Gly Pro Cys Thr Thr
294                   660                 665                 670
295   Leu Glu
297 <210> SEQ ID NO: 3
298 <211> LENGTH: 2022
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
```

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY　　　　　　DATE: 07/24/2001
PATENT APPLICATION: **US/09/899,471**　　TIME: 11:39:18

Input Set : **A:\00-46.SEQ.txt**
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```
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
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L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
```

VERIFICATION SUMMARY   DATE: 07/24/2001
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Input Set : **A:\00-46.SEQ.txt**
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```
L:664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
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L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
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